

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-023388

(43)Date of publication of application : 02.02.1993

(51)Int.Cl. A61L 27/00
A61K 6/06

(21)Application number : 03-178380

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(22)Date of filing : 18.07.1991

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(54) CALCIUM PHOSPHATE POROUS CEMENT

(57)Abstract:

PURPOSE: To provide the title porous cement capable of being formed into a porous body advantageous in the transport of nutrition and the formation of a regenerative bone within a short period of time after curing in a living body and made easy to fill by using a powder material containing calcium phosphate cement composed of a specific composition rich in biocompatibility and a polylactic acid powder and a liquid material as base materials.

CONSTITUTION: α -type calcium tertiary phosphate and calcium primary phosphate dihydrate are mixed so that a Ca/P mol ratio becomes 1.40-1.498 and a polylactic acid powder is further mixed with the resulting mixture to obtain a cement powder material. Next, water is added to the obtained cement powder material to be kneaded therewith to obtain calcium phosphate cement paste. When a bone depleted part or a bone gap part is filled with the obtained paste, the polylactic acid powder is absorbed within a relatively short time to form a porous cement cured body. By this constitution, the tissue of a living body can easily penetrates in the cement cured body and the transport of nutrition becomes easy and healing can be promoted.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]